LIBRARY MANAGEMENT SYSTEM

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Subject   : Programming Language II
Exam   : Midterm - II

OVERVIEW

The Library management system employs Programming tools to eliminate the manually sorting of the items records.
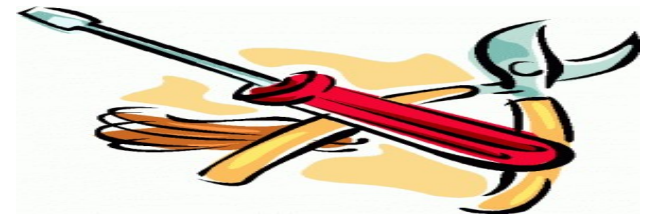
E.g. Books , CD , VCD , DVD.

Keep Track of Library Items and also quick overview of collection.

ADD/DELETE/UPDATE Library Items.

TOOLS USED

IntelliJ IDEA
COMMUNITY 2017.2

IntelliJ IDEA 2017.2.6
Build #IC-172.4574.11, built on November 13, 2017

JRE: 1.8.0_152-release-915-b12 amd64
JVM: OpenJDK 64-Bit Server VM by JetBrains s.r.o

Powered by open-source software

THE DRIVE TO DEVELOP
© 2000–2017 JetBrains s.r.o. All rights reserved.

C:\WINDOWS\system32\cmd.exe — ☐ X

```
Microsoft Windows [Version 10.0.16299.64]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\irfa>java -version
java version "1.8.0_151"
Java(TM) SE Runtime Environment (build 1.8.0_151-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.151-b12, mixed mode)

C:\Users\irfa>
```
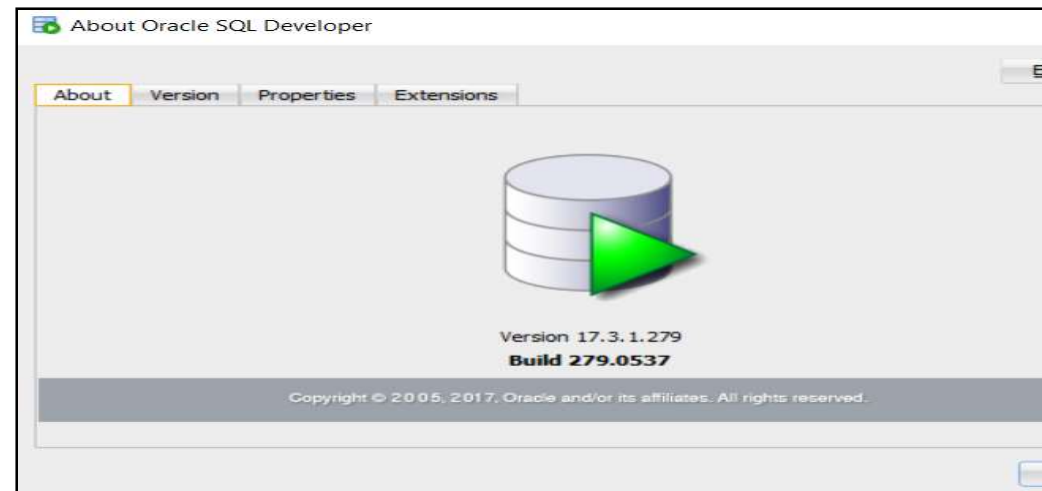
ect Run SQL Command Line — ☐ X

```
us: Release 11.2.0.2.0 Production on Sun Dec 10 23:57:40 2017

ght (c) 1982, 2014, Oracle.  All rights reserved.

onnect HR/password
ted.
ELECT * FROM v$version
HERE banner LIKE 'Oracle%';

-------------------------------------------------------
Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production
```

About Oracle SQL Developer

About	Version	Properties	Extensions

Version 17.3.1.279
Build 279.0537

Copyright © 2005, 2017, Oracle and/or its affiliates. All rights reserved.
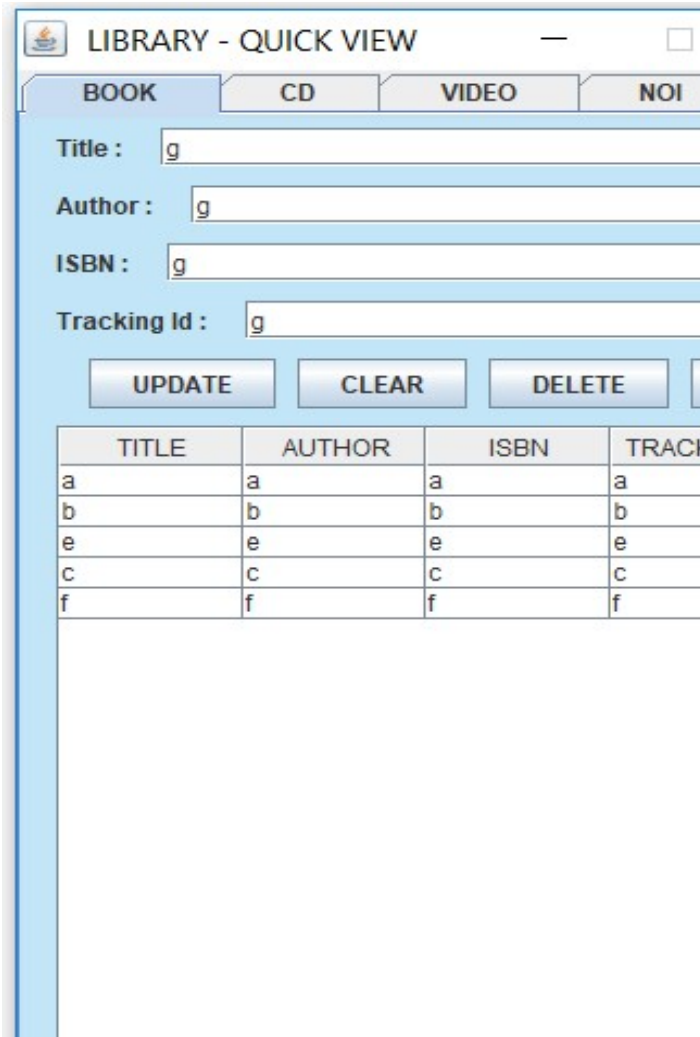
PROJECT SUMMARY

The application is developed in Java and in backend Oracle 11g Database is used.

Four panels are used to navigate between Library items namely Books , Cds and Videos.

FUNCTIONALITIES

Update : queries the database and populates the table with records.

Clear : clear the text fields in order to write a new entry.

Delete : the selected record is deleted from database and table.

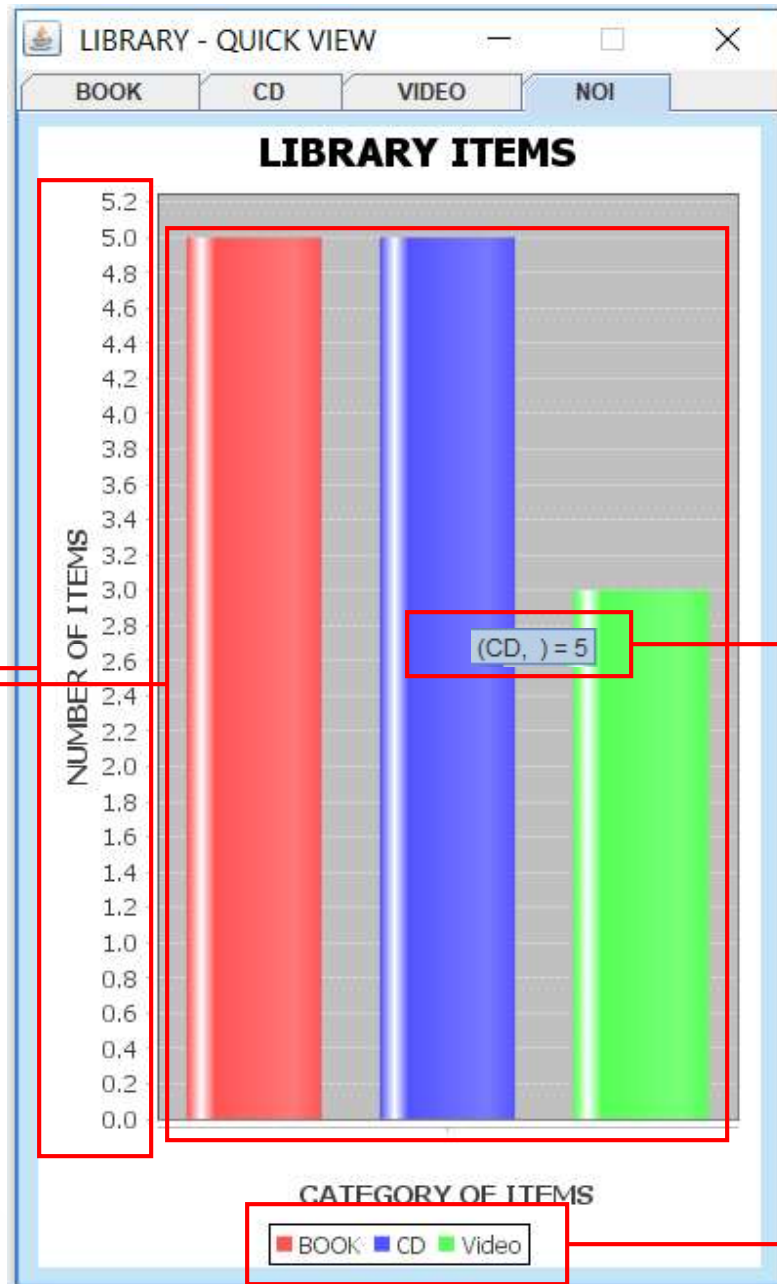**Add** : the entry of details made in text field is added into table and database.

- Text field to take entry from users

- Provides details of Library item.

- Table which provides summ of respective library item.

- Updates from database.

Bar Graph : queries the [d]atabase and display [th]e number of rows in [th]e table in bar graph [fo]rmat.

Tool Tip : On selecti[ng] the Bar graph the value is displayed.

Axis : based on bar [g]raph values auto [ch]ange the axis.

Category: take t[he] categories of Lib[rary] items defined in [the] program.

LIBRARY - QUICK VIEW

BOOK | CD | VIDEO | NOI

LIBRARY ITEMS

NUMBER OF ITEMS

5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

(CD,) = 5

CATEGORY OF ITEMS

BOOK CD Video

APPLICATION

- The Library management system automates the library system and eliminates the tedious manual entry and updating the records.

- There are people who will always prefer reading by Book and keeps collection of items like cds and videos. The application will provide a utility to those people and organize the personal library items.

- The application being software based is easy, simple to use and more reliable.

FUTURE SCOPE

The application is focused on small record system and it is intended for organizing a personal library. But more integration can be employed like :

1. Web Based Application.

2. Mobile Based Application.

3. Database shared between different applications.

Thank You!